**BRUHAT BANGALORE MAHANAGARA PALIKE**

**NAME OF WORK:-Comprehensive Development of BHEL Layout, Ayyappa Layout, Anugraha Layout and Hill Side Meadows in Attur Ward No-03**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Estimation Cost.Rs | 20000000.00 |
| Sl No | Description of work | Unit | Mesurement | | | | Qty | Rate | Amount |
| | | | No. | L | B | D | | | |
| 1 | KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1)(8km lead= 57+2.0x1.28x8) | | | | | | | | |
| | **Drain Desilting** | | | | | | | | |
| | **Anugraha Layout** | | | | | | | | |
| | | | | | | | | | |
| | Main Road | Cum | 2 | 84 | 0.60 | 0.60 | 60.48 | | |
| | 1st Cross Road | Cum | 2 | 148 | 0.45 | 0.45 | 59.94 | | |
| | Cross Road RR Homes | Cum | 2 | 122.00 | 0.45 | 0.45 | 49.41 | | |
| | | | | | | | | | |
| | Basic rate | 130.00 | | | | | | | |
| | Area weightage 6% | 7.80 | | | | | | | |
| | 8Km lead & Lift= 57+(2*1.28*8) | 77.48 | | | | | | | |
| | **Sub Total** | **215.28** | | | | | | | |
| | **Total** | | | | | | **169.83** | **215.28** | **36561.00** |
| 2 | KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 8km lead= ( I No-19.14,P No-143) | | | | | | | | |
| | **Hill Side Meadows Layout** | | | | | | | | |
| | Main Road | Cum | 1 | 164.00 | 9.70 | 0.38 | 604.50 | | |
| | Cross Road-01 | Cum | 1 | 191.00 | 7.00 | 0.38 | 508.06 | | |
| | Cross Road 1 A (S.N.Kids Cottage Day Cave) | Cum | 1 | 32.40 | 4.10 | 0.38 | 50.48 | | |
| | Cross Road-2 | Cum | 1 | 87.00 | 7.00 | 0.38 | 231.42 | | |
| | Cross Road -3 | Cum | 1 | 52.00 | 6.50 | 0.38 | 128.44 | | |
| | **Anugraha Layout** | Cum | | | | | | | |
| | Main Road | Cum | 1 | 84.00 | 6.70 | 0.38 | 213.86 | | |
| | 1st Cross Road | Cum | 1 | 148.00 | 5.80 | 0.38 | 326.19 | | |
| | Cross Road RR Homes | Cum | 1 | 122.00 | 6.20 | 0.38 | 287.43 | | |
| | 2nd Cross Road | Cum | 1 | 147.00 | 5.60 | 0.38 | 312.82 | | |
| | Cross Road | Cum | 1 | 158.00 | 4.00 | 0.38 | 240.16 | | |
| | **BHEL Layout** | Cum | | | | | | | |
| | 1st Cross Road | Cum | 1 | 97.00 | 9.80 | 0.38 | 361.23 | | |
| | 2nd Cross Road | Cum | 1 | 142.00 | 8.10 | 0.38 | 437.08 | | |
| | 3rd Cross Road | Cum | 1 | 138.00 | 10.30 | 0.38 | 540.13 | | |
| | 9th Cross Road | Cum | 1 | 75.00 | 7.20 | 0.38 | 205.20 | | |
| | | | | | | | | | |
| | Basic rate | 41.00 | | | | | | | |
| | Area weightage 6% | 2.46 | | | | | | | |
| | 8Km lead= (2*1.28*8) | 20.48 | | | | | | | |
| | **Sub Total** | **63.94** | | | | | | | |
| | **Total** | | | | | | **4447.00** | **63.94** | **284341.38** |
| 3 | KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147) | | | | | | | | |
| | **Hill Side Meadows Layout** | | | | | | | | |
| | Main Road | Sqm | 1 | 164.00 | 9.70 | | 1590.80 | | |

| Sl No | Description of work | Unit | Mesurement | | | | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. | L | B | D | | | |
| | Cross Road-01 | Sqm | 1 | 191.00 | 7.00 | | 1337.00 | | |
| | Cross Road 1 A (S.N.Kids | Sqm | 1 | 32.40 | 4.10 | | 132.84 | | |
| | Cross Road-2 | Sqm | 1 | 87.00 | 7.00 | | 609.00 | | |
| | Cross Road -3 | Sqm | 1 | 52.00 | 6.50 | | 338.00 | | |
| | **Anugraha Layout** | | | | | | | | |
| | Main Road | Sqm | 1 | 84.00 | 6.70 | | 562.80 | | |
| | 1st Cross Road | Sqm | 1 | 148.00 | 5.80 | | 858.40 | | |
| | Cross Road RR Homes | Sqm | 1 | 122.00 | 6.20 | | 756.40 | | |
| | 2nd Cross Road | Sqm | 1 | 147.00 | 5.60 | | 823.20 | | |
| | Cross Road | Sqm | 1 | 158.00 | 4.00 | | 632.00 | | |
| | **BHEL Layout** | | | | | | | | |
| | 1st Cross Road | Sqm | 1 | 97.00 | 9.80 | | 950.60 | | |
| | 2nd Cross Road | Sqm | 1 | 142.00 | 8.10 | | 1150.20 | | |
| | 3rd Cross Road | Sqm | 1 | 138.00 | 10.30 | | 1421.40 | | |
| | 9th Cross Road | Sqm | 1 | 75.00 | 7.20 | | 540.00 | | |
| | | | | | | | | | |
| | Basic rate | 6.00 | | | | | | | |
| | Area weightage 6% | 0.36 | | | | | | | |
| | Sub Total | 6.36 | | | | | | | |
| | **Total** | | | | | | **11702.64** | **6.36** | **74428.79** |
| 4 | Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.( I No-20.5,P No-153) | | | | | | | | |
| | **Hill Side Meadows Layout** | | | | | | | | |
| | Main Road | Cum | 1 | 164.00 | 9.70 | 0.15 | 238.62 | | |
| | Cross Road-01 | Cum | 1 | 191.00 | 7.00 | 0.15 | 200.55 | | |
| | Cross Road 1 A (S.N.Kids Cottage Day Cave) | Cum | 1 | 32.40 | 4.10 | 0.15 | 19.93 | | |
| | Cross Road-2 | Cum | 1 | 87.00 | 7.00 | 0.15 | 91.35 | | |
| | Cross Road -3 | Cum | 1 | 52.00 | 6.50 | 0.15 | 50.70 | | |
| | **Anugraha Layout** | Cum | | | | | | | |
| | Main Road | Cum | 1 | 84.00 | 6.70 | 0.15 | 84.42 | | |
| | 1st Cross Road | Cum | 1 | 148.00 | 5.80 | 0.15 | 128.76 | | |
| | Cross Road RR Homes | Cum | 1 | 122.00 | 6.20 | 0.15 | 113.46 | | |
| | 2nd Cross Road | Cum | 1 | 147.00 | 5.60 | 0.15 | 123.48 | | |
| | Cross Road | Cum | 1 | 158.00 | 4.00 | 0.15 | 94.80 | | |
| | **BHEL Layout** | | | | | | | | |
| | 1st Cross Road | Cum | 1 | 97.00 | 9.80 | 0.15 | 142.59 | | |
| | 2nd Cross Road | Cum | 1 | 142.00 | 8.10 | 0.15 | 172.53 | | |
| | 3rd Cross Road | Cum | 1 | 138.00 | 10.30 | 0.15 | 213.21 | | |
| | 9th Cross Road | Cum | 1 | 75.00 | 7.20 | 0.15 | 81.00 | | |
| | | | | | | | | | |
| | Basic rate | 1882.00 | | | | | | | |
| | Area weightage 6% | 112.92 | | | | | | | |
| | Sub Total | 1994.92 | | | | | | | |
| | **Total** | | | | | | **1755.40** | **1994.92** | **3501874.59** |
| 5 | KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18) | | | | | | | | |
| | **New Road** | | | | | | | | |

| Sl No | Description of work | Unit | Mesurement | | | | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. | L | B | D | | | |
| | **Hill Side Meadows Layout** | | | | | | | | |
| | Main Road | Cum | 1 | 164.00 | 9.70 | 0.23 | 365.88 | | |
| | Cross Road-01 | Cum | 1 | 191.00 | 7.00 | 0.23 | 307.51 | | |
| | Cross Road 1 A (S.N.Kids | Cum | 1 | 32.40 | 4.10 | 0.23 | 30.55 | | |
| | Cross Road-2 | Cum | 1 | 87.00 | 7.00 | 0.23 | 140.07 | | |
| | Cross Road -3 | Cum | 1 | 52.00 | 6.50 | 0.23 | 77.74 | | |
| | **Anugraha Layout** | | | | | | | | |
| | Main Road | Cum | 1 | 84.00 | 6.70 | 0.23 | 129.44 | | |
| | 1st Cross Road | Cum | 1 | 148.00 | 5.80 | 0.23 | 197.43 | | |
| | Cross Road RR Homes | Cum | 1 | 122.00 | 6.20 | 0.23 | 173.97 | | |
| | 2nd Cross Road | Cum | 1 | 147.00 | 5.60 | 0.23 | 189.34 | | |
| | Cross Road | Cum | 1 | 158.00 | 4.00 | 0.23 | 145.36 | | |
| | **BHEL Layout** | | | | | | | | |
| | 1st Cross Road | Cum | 1 | 97.00 | 9.80 | 0.23 | 218.64 | | |
| | 2nd Cross Road | Cum | 1 | 142.00 | 8.10 | 0.23 | 264.55 | | |
| | 3rd Cross Road | Cum | 1 | 138.00 | 10.30 | 0.23 | 326.92 | | |
| | 9th Cross Road | Cum | 1 | 75.00 | 7.20 | 0.23 | 124.20 | | |
| | | | | | | | | | |
| | Basic rate | 1888.00 | | | | | | | |
| | Area weightage 6% | 113.28 | | | | | | | |
| | **Sub Total** | **2001.28** | | | | | | | |
| | **Total** | | | | | | **2691.61** | **2001.28** | **5386659.66** |
| 6 | KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(P.No.158,I.No.21.1) | | | | | | | | |
| | **New Road** | | | | | | | | |
| | **Hill Side Meadows Layout** | | | | | | | | |
| | Main Road | Sqm | 1 | 164.00 | 9.70 | | 1590.80 | | |
| | Cross Road-01 | Sqm | 1 | 191.00 | 7.00 | | 1337.00 | | |
| | Cross Road 1 A (S.N.Kids Cottage Day Cave) | Sqm | 1 | 32.40 | 4.10 | | 132.84 | | |
| | Cross Road-2 | Sqm | 1 | 87.00 | 7.00 | | 609.00 | | |
| | Cross Road -3 | Sqm | 1 | 52.00 | 6.50 | | 338.00 | | |
| | **Anugraha Layout** | | | | | | | | |
| | Main Road | Sqm | 1 | 84.00 | 6.70 | | 562.80 | | |
| | 1st Cross Road | Sqm | 1 | 148.00 | 5.80 | | 858.40 | | |
| | Cross Road RR Homes | Sqm | 1 | 122.00 | 6.20 | | 756.40 | | |
| | 2nd Cross Road | Sqm | 1 | 147.00 | 5.60 | | 823.20 | | |
| | Cross Road | Sqm | 1 | 158.00 | 4.00 | | 632.00 | | |
| | **BHEL Layout** | | | | | | | | |
| | 1st Cross Road | Sqm | 1 | 97.00 | 9.80 | | 950.60 | | |
| | 2nd Cross Road | Sqm | 1 | 142.00 | 8.10 | | 1150.20 | | |
| | 3rd Cross Road | Sqm | 1 | 138.00 | 10.30 | | 1421.40 | | |
| | 9th Cross Road | Sqm | 1 | 75.00 | 7.20 | | 540.00 | | |
| | | | | | | | | | |
| | Basic rate | 21.00 | | | | | | | |
| | Area weightage 6% | 1.26 | | | | | | | |

| Sl No | Description of work | Unit | Mesurement | | | | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. | L | B | D | | | |
| | **Sub Total** | **22.26** | | | | | | | |
| | **Total** | | | | | | **11702.64** | **22.26** | **260500.77** |
| 7 | KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6) | | | | | | | | |
| | | Sqm | From Item No. 06 | | | | 11702.64 | | |
| | | | | | | | | | |
| | Basic rate | 28.00 | | | | | | | |
| | Area weightage 6% | 1.68 | | | | | | | |
| | **Sub Total** | **29.68** | | | | | | | |
| | **Total** | | | | | | **11702.64** | **29.68** | **347334.36** |
| 8 | KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6) | | | | | | | | |
| | **New Road** | | | | | | | | |
| | **Hill Side Meadows Layout** | | | | | | | | |
| | Main Road | Cum | 1 | 164.00 | 9.70 | 0.05 | 79.54 | | |
| | Cross Road-01 | Cum | 1 | 191.00 | 7.00 | 0.05 | 66.85 | | |
| | Cross Road 1 A (S.N.Kids Cottage Day Cave) | Cum | 1 | 32.40 | 4.10 | 0.05 | 6.64 | | |
| | Cross Road-2 | Cum | 1 | 87.00 | 7.00 | 0.05 | 30.45 | | |
| | Cross Road -3 | Cum | 1 | 52.00 | 6.50 | 0.05 | 16.90 | | |
| | **Anugraha Layout** | | | | | | | | |
| | Main Road | Cum | 1 | 84.00 | 6.70 | 0.05 | 28.14 | | |
| | 1st Cross Road | Cum | 1 | 148.00 | 5.80 | 0.05 | 42.92 | | |
| | Cross Road RR Homes | Cum | 1 | 122.00 | 6.20 | 0.05 | 37.82 | | |
| | 2nd Cross Road | Cum | 1 | 147.00 | 5.60 | 0.05 | 41.16 | | |
| | Cross Road | Cum | 1 | 158.00 | 4.00 | 0.05 | 31.60 | | |
| | **BHEL Layout** | | | | | | | | |
| | 1st Cross Road | Cum | 1 | 97.00 | 9.80 | 0.05 | 47.53 | | |
| | 2nd Cross Road | Cum | 1 | 142.00 | 8.10 | 0.05 | 57.51 | | |
| | 3rd Cross Road | Cum | 1 | 138.00 | 10.30 | 0.05 | 71.07 | | |
| | 9th Cross Road | Cum | 1 | 75.00 | 7.20 | 0.05 | 27.00 | | |
| | | | | | | | | | |
| | Basic rate | 6045.00 | | | | | | | |
| | Area weightage 6% | 362.70 | | | | | | | |
| | **Sub Total** | **6407.70** | | | | | | | |
| | **Total** | | | | | | **585.13** | **6407.70** | **3749350.32** |
| 9 | KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.158,I.No.21.2). | | | | | | | | |
| | **New Road** | | | | | | | | |
| | **Hill Side Meadows Layout** | | | | | | | | |
| | Main Road | Sqm | 1 | 164.00 | 9.70 | | 1590.80 | | |
| | Cross Road-01 | Sqm | 1 | 191.00 | 7.00 | | 1337.00 | | |
| | Cross Road 1 A (S.N.Kids Cottage Day Cave) | Sqm | 1 | 32.40 | 4.10 | | 132.84 | | |
| | Cross Road-2 | Sqm | 1 | 87.00 | 7.00 | | 609.00 | | |
| | Cross Road -3 | Sqm | 1 | 52.00 | 6.50 | | 338.00 | | |
| | **Anugraha Layout** | | | | | | | | |
| | Main Road | Sqm | 1 | 84.00 | 6.70 | | 562.80 | | |
| | 1st Cross Road | Sqm | 1 | 148.00 | 5.80 | | 858.40 | | |

| Sl No | Description of work | Unit | Mesurement No. | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | Cross Road RR Homes | Sqm | 1 | 122.00 | 6.20 | | 756.40 | | |
| | 2nd Cross Road | Sqm | 1 | 147.00 | 5.60 | | 823.20 | | |
| | Cross Road | Sqm | 1 | 158.00 | 4.00 | | 632.00 | | |
| | **BHEL Layout** | | | | | | | | |
| | 1st Cross Road | Sqm | 1 | 97.00 | 9.80 | | 950.60 | | |
| | 2nd Cross Road | Sqm | 1 | 142.00 | 8.10 | | 1150.20 | | |
| | 3rd Cross Road | Sqm | 1 | 138.00 | 10.30 | | 1421.40 | | |
| | 9th Cross Road | Sqm | 1 | 75.00 | 7.20 | | 540.00 | | |
| | | | | | | | | | |
| | Basic rate | 5.00 | | | | | | | |
| | Area weightage 6% | 0.30 | | | | | | | |
| | **Sub Total** | **5.30** | | | | | | | |
| | **Total** | | | | | | **11702.64** | **5.30** | **62023.99** |
| 10 | KSRRB 500-7. Providing and **applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7) | | | | | | | | |
| | | Sqm | From Item No. 10 | | | | 11702.64 | | |
| | Basic rate | 12.00 | | | | | | | |
| | Area weightage 6% | 0.72 | | | | | | | |
| | **Sub Total** | **12.72** | | | | | | | |
| | **Total** | | | | | | **11702.64** | **12.72** | **148857.58** |
| 11 | Providing and laying Bituminous Concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment , rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications.Clause 507 of MORTH V revision as per IRC SP-53-2015 - using 40-60 TPH capacity HMP with mechanical Paver, Gr-II (30-45mm) with 5.4 % of modified bitumen binder consisting of 4.97% VG- 30 bitumen (60/70 grade) 0.43% Plastomeric Thermoplastics (Waste plastic Additive). (P.No-171I No-21.78.12) | | | | | | | | |
| | **Hill Side Meadows Layout** | | | | | | | | |
| | Main Road | Cum | 1 | 164.00 | 9.70 | 0.04 | 63.63 | | |
| | Cross Road-01 | Cum | 1 | 191.00 | 7.00 | 0.03 | 40.11 | | |
| | Cross Road 1 A (S.N.Kids Cottage Day Cave) | Cum | 1 | 32.40 | 4.10 | 0.03 | 3.99 | | |
| | Cross Road-2 | Cum | 1 | 87.00 | 7.00 | 0.03 | 18.27 | | |
| | Cross Road -3 | Cum | 1 | 52.00 | 6.50 | 0.03 | 10.14 | | |
| | **Anugraha Layout** | | | | | | | | |
| | Main Road | Cum | 1 | 84.00 | 6.70 | 0.03 | 16.88 | | |
| | 1st Cross Road | Cum | 1 | 148.00 | 5.80 | 0.03 | 25.75 | | |
| | Cross Road RR Homes | Cum | 1 | 122.00 | 6.20 | 0.03 | 22.69 | | |
| | 2nd Cross Road | Cum | 1 | 147.00 | 5.60 | 0.03 | 24.70 | | |
| | Cross Road | Cum | 1 | 158.00 | 4.00 | 0.03 | 18.96 | | |
| | **BHEL Layout** | | | | | | | | |
| | 1st Cross Road | Cum | 1 | 97.00 | 9.80 | 0.04 | 38.02 | | |
| | 2nd Cross Road | Cum | 1 | 142.00 | 8.10 | 0.03 | 34.51 | | |
| | 3rd Cross Road | Cum | 1 | 138.00 | 10.30 | 0.04 | 56.86 | | |
| | 9th Cross Road | Cum | 1 | 75.00 | 7.20 | 0.03 | 16.20 | | |
| | | | | | | | | | |
| | Basic rate | 7111.00 | | | | | | | |
| | Area weightage 6% | 426.66 | | | | | | | |
| | **Sub Total** | **7537.66** | | | | | | | |
| | **Total** | | | | | | **390.71** | **7537.66** | **2945018.03** |

| Sl No | Description of work | Unit | Mesurement | | | | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. | L | B | D | | | |
| 12 | **KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)** | | | | | | | | |
| | **Hill Side Meadows Layout** | | | | | | | | |
| | Main Road | | | | | | | | |
| | For Centre | Sqm | 0.5 | 164.00 | 0.10 | | 8.20 | | |
| | For Edges | Sqm | 2 | 164.00 | 0.10 | | 32.80 | | |
| | Cross Road-01 | | | | | | | | |
| | For Centre | Sqm | 0.5 | 191.00 | 0.10 | | 9.55 | | |
| | For Edges | Sqm | 2 | 191.00 | 0.10 | | 38.20 | | |
| | Cross Road 1 A (S.N.Kids Cottage Day Cave) | Sqm | 2 | 32.40 | 0.10 | | 6.48 | | |
| | Cross Road-2 | | | | | | | | |
| | For Centre | Sqm | 0.5 | 87.00 | 0.10 | | 4.35 | | |
| | For Edges | Sqm | 2 | 87.00 | 0.10 | | 17.40 | | |
| | Cross Road -3 | | | | | | | | |
| | For Centre | Sqm | 0.5 | 52.00 | 0.10 | | 2.60 | | |
| | For Edges | Sqm | 2 | 52.00 | 0.10 | | 10.40 | | |
| | **Anugraha Layout** | | | | | | | | |
| | Main Road | | | | | | | | |
| | For Centre | Sqm | 0.5 | 84.00 | 0.10 | | 4.20 | | |
| | For Edges | Sqm | 2 | 84.00 | 0.10 | | 16.80 | | |
| | 1st Cross Road | | | | | | | | |
| | For Centre | Sqm | 0.5 | 148.00 | 0.10 | | 7.40 | | |
| | For Edges | Sqm | 2 | 148.00 | 0.10 | | 29.60 | | |
| | Cross Road RR Homes | | | | | | | | |
| | For Centre | Sqm | 0.5 | 122.00 | 0.10 | | 6.10 | | |
| | For Edges | Sqm | 2 | 122.00 | 0.10 | | 24.40 | | |
| | 2nd Cross Road | | | | | | | | |
| | For Centre | Sqm | 0.5 | 147.00 | 0.10 | | 7.35 | | |
| | For Edges | Sqm | 2 | 147.00 | 0.10 | | 29.40 | | |
| | Cross Road | | | | | | | | |
| | For Centre | Sqm | 0.5 | 158.00 | 0.10 | | 7.90 | | |
| | For Edges | Sqm | 2 | 158.00 | 0.10 | | 31.60 | | |
| | **BHEL Layout** | | | | | | | | |
| | 1st Cross Road | | | | | | | | |
| | For Centre | Sqm | 0.5 | 97.00 | 0.10 | | 4.85 | | |
| | For Edges | Sqm | 2 | 97.00 | 0.10 | | 19.40 | | |
| | 2nd Cross Road | | | | | | | | |
| | For Centre | Sqm | 0.5 | 142.00 | 0.10 | | 7.10 | | |
| | For Edges | Sqm | 2 | 142.00 | 0.10 | | 28.40 | | |
| | 3rd Cross Road | | | | | | | | |
| | For Centre | Sqm | 0.5 | 138.00 | 0.10 | | 6.90 | | |
| | For Edges | Sqm | 2 | 138.00 | 0.10 | | 27.60 | | |
| | 9th Cross Road | | | | | | | | |
| | For Centre | Sqm | 0.5 | 75.00 | 0.10 | | 3.75 | | |
| | For Edges | Sqm | 2 | 75.00 | 0.10 | | 15.00 | | |
| | | | | | | | | | |
| | Basic rate | 429.00 | | | | | | | |
| | Area weightage 6% | 25.74 | | | | | | | |
| | **Sub Total** | **454.74** | | | | | 407.73 | 454.74 | 185411.14 |
| | **Total** | | | | | | | | |

| l No | Description of work | Unit | Mesurement | | | | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | No. | L | B | D | | | |
| 3.00 | KSRRB M800 Road markers/ Road stud , KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS (Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering thje lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97-DO III Dt 11.06.1997.The height, width and length shall not exceed 50mm, 100mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree.The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19mm and height not less than 30mm )from the body is to be a minimum value of 500kg. Fixing will be by drilling holes on the road for the shanks to go inside, without ails and using epoxy resin based adhesive as per manufacture's recommendation and complete as directed by the engineer.(P.No-187,I No-24.41) | | | | | | | | |
| | **Road Studs along Road Length** | | | | | | | | |
| | **Hill Side Meadows Layout** | | | | | | | | |
| | Main Road | | 3 | 164.00 | | | 492.00 | | |
| | Cross Road-01 | | 3 | 191.00 | | | 573.00 | | |
| | Cross Road-2 | | 3 | 87.00 | | | 261.00 | | |
| | Cross Road -3 | | 3 | 52.00 | | | 156.00 | | |
| | **Anugraha Layout** | | | | | | | | |
| | Main Road | | 3 | 84.00 | | | 252.00 | | |
| | 1st Cross Road | | 3 | 148.00 | | | 444.00 | | |
| | Cross Road RR Homes | | 3 | 122.00 | | | 366.00 | | |
| | 2nd Cross Road | | 3 | 147.00 | | | 441.00 | | |
| | **BHEL Layout** | | | | | | | | |
| | 1st Cross Road | | 3 | 97.00 | | | 291.00 | | |
| | 2nd Cross Road | | 3 | 142.00 | | | 426.00 | | |
| | 3rd Cross Road | | 3 | 138.00 | | | 414.00 | | |
| | 9th Cross Road | | 3 | 75.00 | | | 225.00 | | |
| | | | | | | | | | |
| | | Nos | | | | | **Sub Total** | 4341.00 | |
| | **Provide Studs for every 3m along Road lenth** | | | | | | | | |
| | **Number of Studs along Road Length** | | | **Total length/3** | | | 1447.00 | | |
| | Basic rate | 337.00 | | | | | | | |
| | Area weightage 6% | 20.22 | | | | | | | |
| | **Sub Total** | 357.22 | | | | | 1447.00 | 357.22 | 516897.34 |
| | **Total** | | | | | | | **Grand Total** | 17499258.95 |
| | | | | | | | | DPR Charges (1% of estimated cost) | 200000.00 |
| | | | | | | | | Project management And Consultancy Charges(1% of estimated cost) | 200000.00 |
| | | | | | | | | GST Charges (12% of estimated cost) | 2099911.07 |
| | | | | | | | | Miscellenious and rounding | 829.98 |
| | | | | | | | | **Total Amount** | 20000000.00 |
| | | | | | | | | **RUPEES TWO CRORE ONLY** | |

Administrative Sanction for Rs. 200.00 lakhs
(Rupees Two Crore Only)
is accorded under head ... P 2178
by Mayor grant
Registered as CE No. 84 Subject
conditions contained in enclosed memo
vide BBMP/EE/4N14/AS/20-21 Dt. 17/12/2020
Executive Engineer

Technical Sanction
Accorded For Rs.200.00lakhs only
Head of A/C...P.2178
CE/NO :...84..... Dt...
CE (YNR)

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP